Claim 24 (Withdrawn): The pair of polymerase chain reaction primers of claim 23, wherein said prokaryote is selected from the group consisting of Haemophilius influenzae, Mycoplasma pneumoniae. Helicohacter pylori, Methanococcus jannaschii, Archaeoglobus fulgidus and Synechocystis sp. PCC6803.

Claim 25 (Currently amended): An allele specific oligonucleotide comprising a sequence of nucleotides adapted for effectively hybridizing only with at least one specific simple sequence repeat of a polymorphic mono- or dinucleotide simple sequence repeat locus in a genome of Listeria monocytogenesa prokaryote, under stringent allcle specific oligonucleotide hybridization conditions of (i) a hybridization solution of 2 x standard sodium citrate (SSC) and 0.1 % sodium dodecyl sulfate (SDS); (ii) a hybridization temperature of from 42 °C to Tm - 5 °C for 30 minutes to overnight, wherein Tm is estimated as 2 x (the number of A plus T residues) + 4 x (the number of G plus C residues); and (iii) post hybridization washes with 0.75 x SSC and 0.1 % SDS at a temperature from 42 °C to Tm - 5 °C, wherein said polymorphic simple sequence repeat locus comprises at least four nucleotides in at least one of its polymorphs, and whereas said polymorphic simple sequence is in a non-coding region of said Listeria monocytogenes genome.

Claim 26 (Original): The allele specific oligonucleotide of claim 25, wherein said sequence of nucleotides is perfectly complementary to said specific simple sequence repeat.

Claim 27 (Original): A hybrid of the allele specific oligonucleotide of claim 25 and said specific simple sequence repeat.

Claim 28 (Withdrawn):. The allele specific oligonucleotide of claim 25, wherein said polymorphic simple sequence locus is in a non-coding region of said genome.

Claim 29 (Withdrawn): The allele specific oligonucleotide of claim 25, wherein said prokaryote is of the genus *Escherichia*.

Claim 30 (Withdrawn): The allele specific oligonucleotide of claim 29, wherein said prokaryote is Escherichia coli.

Claim 31 (Cancelled)

Claim 32 (Cancelled)

Claim 33 (Withdrawn): The allele specific oligonucleotide of claim 25, wherein said prokaryote is of a genus selected from the group consisting of Haemophilius, Mycoplasma, Helicobacter, Methanococcus, Archaeoglobus and Synechocystis.

Claim 34 (Withdrawn): The allele specific oligonucleotide of claim 33, wherein said prokaryote is selected from the group consisting of Haemophilius influenzae, Mycoplasma pneumoniae, Helicobacter pylori, Methanococcus jannaschii, Archaeoglobus fulgidus and Synechocystis sp. PCC6803.

Claim 35 (Currently amended): A primer having a sequence adapted for amplification of a polymorphic mono- or dinucleotide simple sequence repeat locus in a genome of <u>Listeria monocytogenesa prokaryote</u>, said polymorphic simple sequence repeat locus comprising at least four nucleotides in at least one of its polymorphs, wherein said polymorphic simple sequence is in a non-coding region of said <u>Listeria monocytogenes</u> genome.

Claim 36 (Cancelled)

Claim 37 (Withdrawn): The primer of claim 35, wherein said

prokaryote is of the genus Escherichia.

Claim 38 (Withdrawn): The primer of claim 37, wherein said prokaryote is Escherichia coli.

Claim 39 (Cancelled)

Claim 40 (Cancelled)

Claim 41 (Withdrawn): The primer of claim 35, wherein said prokaryote is of a genus selected from the group consisting of *Haemophilius*, *Mycoplasma*, *Helicobacter*, *Methanococcus*, *Archaeoglobus* and *Synechocystis*.

Claim 42 (Withdrawn): The primer of claim 41, wherein said prokaryote is selected from the group consisting of Haemophilius influenzae, Mycoplasma pneumoniae, Helicobacter pylori, Methanococcus jannaschii, Archaeoglobus fulgidus and Synechocystis sp. PCC6803.

Claim 43 (Currently amended): A DNA chip comprising a surface and a plurality of allele specific oligonucleotides attached thereto, each of said plurality of allele specific oligonucleotides including a sequence of nucleotides adapted for effectively hybridizing only with a specific simple sequence repeat of a polymorphic mono- or dinucleotide simple sequence repeat locus in a genome of Listeria monocytogenes—a—prokaryote, under stringent allele specific oligonucleotide hybridization conditions of (i) a hybridization solution of 2 x standard sodium citrate (SSC) and 0.1 % sodium dodecyl sulfate (SDS); (ii) a hybridization temperature of from 42 °C to Tm - 5 °C for 30 minutes to overnight, wherein Tm is estimated as 2 x (the number of A plus T residues) + 4 x (the number of G plus C residues); and (iii) post hybridization washes with 0.75 x SSC and 0.1 % SDS at a temperature from 42 °C to Tm - 5 °C, wherein said polymorphic simple sequence repeat locus comprises at least four nucleotides in at least one of its polymorphis, and whereas said polymorphic simple sequence is

in a non-coding region of said Listeria monocytogenes genome.-

Claim 44 (Original): The DNA chip of claim 43, wherein said sequence of nucleotides is perfectly complementary to said specific simple sequence repeat.

Claim 45 (Cancelled)

Claim 46 (Withdrawn): The DNA chip of claim 43, wherein said prokaryote is of the genus Escherichia.

Claim 47 (Withdrawn): The DNA chip of claim 46, wherein said prokaryote is Escherichia colt.

Claim 48 (Cancelled)

Claim 49 (Cancelled)

Claim 50 (Withdrawn): The DNA chip of claim 43, wherein said prokaryote is of a genus selected from the group consisting of *Haemophilius*, *Mycoplasma*, *Helicobacter*, *Methanococcus*, *Archaeoglobus* and *Synechocystis*.

Claim 51 (Withdrawn): The DNA chip of claim 50, wherein said prokaryote is selected from the group consisting of Haemophilius Influenzae, Mycoplasma pneumoniae, Helicohacter pylori, Methanococcus jannaschil, Archaeoglobus fulgidus and Synechocystis sp. PCC6803.